

DaimlerChrysler AG

Patent Claims

1. A forming die having a cavity which forms a shaping space and into which a workpiece can be introduced, and having a passage which runs within the die and connects the shaping space to the area surrounding the die, characterized in that the die (1) contains a liquid-permeable and gas-permeable insert body (8), which is held in a recess (9) of the die (1) near to the shaping space and by means of a peripheral region (10) facing the shaping space (2) forms a section of the cavity (3), and in that the passage (4-7) opens out at the insert body (8) outside this peripheral region (10).
2. The forming die as claimed in claim 1, characterized in that the insert body (8) consists of a porous sintered metal.
3. The forming die as claimed in claim 1, characterized in that the insert body (8) is an ultrafine sieve or a diaphragm.
4. The forming die as claimed in one of claims 1 to 3, characterized in that the forming die (1) is a hydroforming die, and in that the workpiece is formed by a peripherally continuous hollow profiled section.
5. The forming die as claimed in one of claims 1 to 3, characterized in that the forming die (1) is a hydroforming die, and in that the workpiece is formed by two plates resting on top of one

another, which can be clamped in the forming die
(1) between an upper die block and a lower die
block and between which a fluidic internal high
pressure can be generated by means of a lance-like
5 plunger which is assigned to the forming die (1)
and is introduced between the plates.